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DIVISION OF OIL GAS & MINING

24 May 1991

Ref: <u>Division Order</u>, <u>Bear Canyon Mine</u>, <u>Co-Op Mining Company</u>, <u>ACT/015/025</u>, <u>Emery County</u>, <u>Utah</u>

Attached with this letter are 4 copies of revised pages and Plates. These pages have been adjusted following suggestions from the Division Order comments, received 7 December 1990, (ltr dated Nov 27, 1990). Additional issues have been addressed with this submittal so that the permit complies with the standards and requirements of the State Program. Additional copies of this material will be forwarded to the Division upon request.

Each of the items from the Division Order and others that are addressed with this submittal are listed in the pages that follow. These comments and responses should satisfy any concerns that the Division may have.

Thank you,

Kimly C. Mangum, F.E.

Permitting & Compliance Consultant.

Enclosure(s)

cc: Co-Op Mining Co.

C.O.P. Coal Development Co.

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## PAGE 2

#### Item #8

#### ATTACHED

Plates 8-5A thru 8-5D,

This "Reclamation Area" map divides the disturbed area into 8 different sub areas. Each area is discussed in the text.

p 8-ii, 8-iii 8-11 - 8-41, 8A-1 - 8A-2, 8D-1 T.O.C., and text have been modified to incorporate changes that define reclamation procedures concerned with substitute plant growth material. Due to the large percentage of pre-1977 disturbance area, there is a deficiency of stored recovered material. There is however sufficient material available that has been identified in the event that the on-site (in-place) material is not suitable. Some reorganization and renumbering of Chapter 8 has been completed.

p 3-47, 3-61, 3-76, 4-10, 9-13, 9-16

References to Chapter 8 were updated.

#### PAGE #4

# Item 14

## Attached

Plates 3-2 p 3-vi, 3-66, 3-72 and App 3-L Post Mining contours have been generated using hydrologic requirements and mass balance calculations. Calculations and profiles are found in App 3-L and are referenced in the other pages listed.

## Item 17

App 7-F Plate 7-2 Plate 7-3 Calculations have been performed to verify that the proposed sedimentation pond geometries will fully contain the 10-year, 24-hour precipitation event with maximum sediment storage and adequate decant facilities. Topographic maps of the ponds with a scale of 1"=20' are included.

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## PAGE #5

## Item 18

App 7-H Plate 7-7 Ch 7

Reclamation channel designs have been completed and include accurate post mining watershed definitions, cross sections, profiles, and design calculations. Results have been incorporated into the main text of Chapter 7.

### ADDITIONAL ISSUES

App 7-K Plate 7-1C Reference to the lower pile of downcast material below the upper storage pad was added to the text. Also the strip of disturbed area below the portal access road near the Hiawatha portal was added as a B.T.C.A area.

p 7-v

List of Plates updated.

p 3-10

Number of disturbed acres corrected.

Ch 7 p 58-125 App 7-G Plates 7-1

The text has been modified to include the reference to the revised appendixes. See item 17 and 18 above. In addition, hydrologic calculations have been performed to determine the adequacy of all existing diversion structures (ditches and culverts) and rip-rap sizes. Watershed areas within the disturbed area are shown on Plates 7-1.

Plates 2-4,

Plates have been updated to coordinate with all of the updates made.